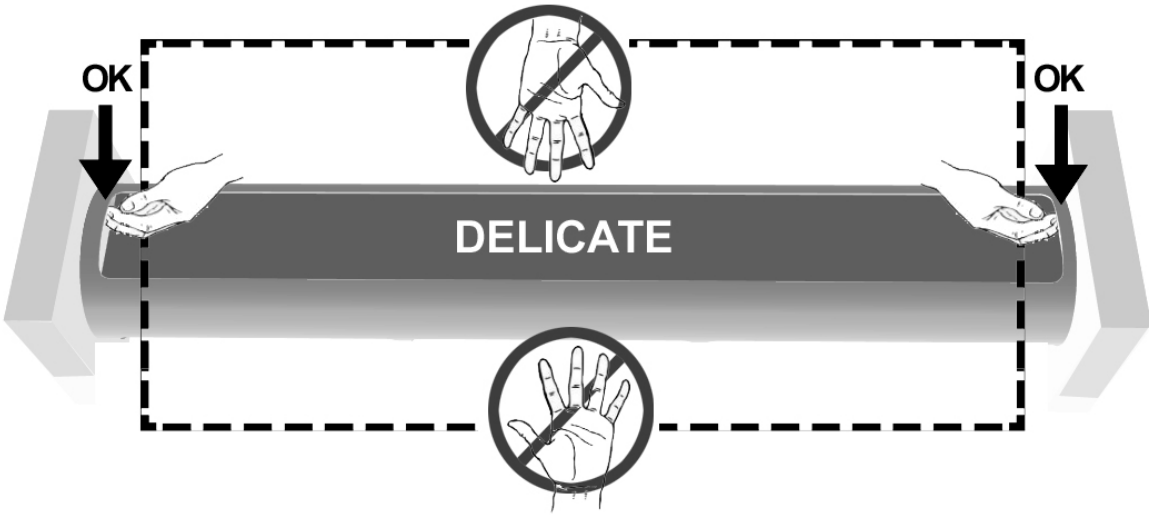
1 **READ MANUAL (IMPORTANT INFO !!!)**

2 **TEST CONTENT ON THE USER CD FIRST**

3 **PRACTICE USING BEFORE ANY DEMO**

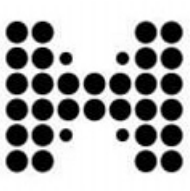
4 **INFORMATION / QUESTIONS / SETUP:**

WWW.IO2TECHNOLOGY.COM/L90.HTML SUPPORT@IO2TECHNOLOGY.COM


OK
OK
DELICATE

HEAVY
35kg
CONSIDER
Two person lift or mechanical aid
CAUTION

user manual



heliodisplay

L90

2011-1

Unauthorized modifications to the hardware or software, including but not limited to tampering with logos or insignia, or opening non-user-serviceable parts of the display, will immediately and permanently void all warranties, to the extent permissible under California law. The contents of this manual are subject to change without notice. Copying of this manual, either in part or in it's entirety is forbidden.

IMPORTANT USER SAFETY

SYSTEM MUST BE OPERATED WITH THE AIR DIRECTED IN ONE ORIENTATION ONLY. (VERTICAL TOWER)

USE ONLY WITH A THREE-PRONG GROUNDED OUTLET.

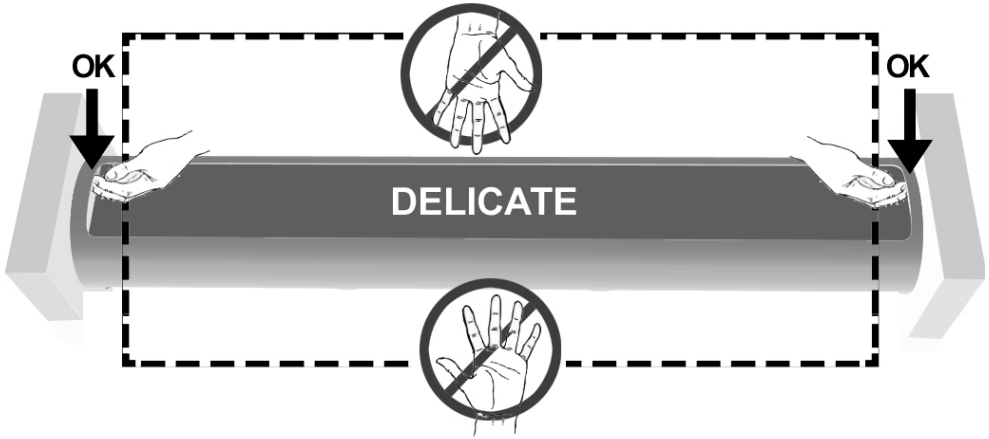
NO SERVICEABLE PARTS INSIDE. ALL WARRANTIES VOID IF OPENED.

RISK OF ELECTRIC SHOCK IF EQUIPMENT IS NOT DRAINED FOR SHIPPING OR TRANSPORT.

BASIC SETUP

1

OPEN THE CRATE. REMOVE THE TOWER AND PLACE ON THE GROUND IN A SAFE AREA



USEFUL TOOLS: SUGGESTED

FLAT SCREWDRIVER: TO ADJUST SETTING "B"

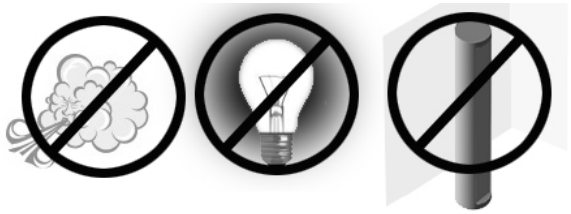
OR

Water container, or (IO2 Accessory)

CLEAN ANY BUILDUP OF CONDENSATION ON HONEYCOMB GRILL

2

PREPARATION. FIND AN AREA THAT HAS CONTROLLED LIGHTING, A CONTRAST BACKGROUND, AND AWAY FROM STRONG AIR CURRENTS



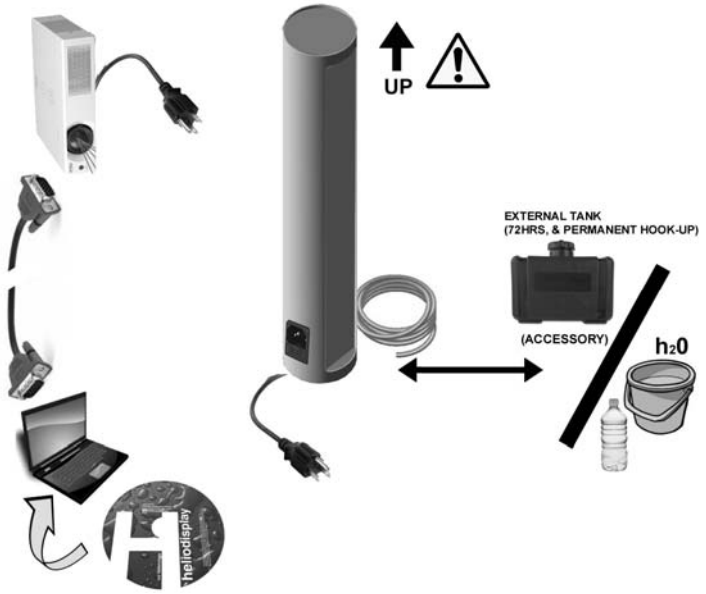
3

BE PREPARED TO SPEND TIME TO BECOME KNOWELDGEABLE WITH THE SYSTEM. AFTER PRACTICE, IT WILL ONLY TAKE A FEW MINUTES TO SETUP AND OPERATE. TURNING ON A HELIODISPLAY IS STRAIGHT FORWARD, HOWEVER TO CREATE IMPRESSIVE RESULTS TAKES TIME, EXPERIENCE AND CREATIVITY. PLEASE BE PATIENT TO UNDERSTAND THE SYSTEM.

4

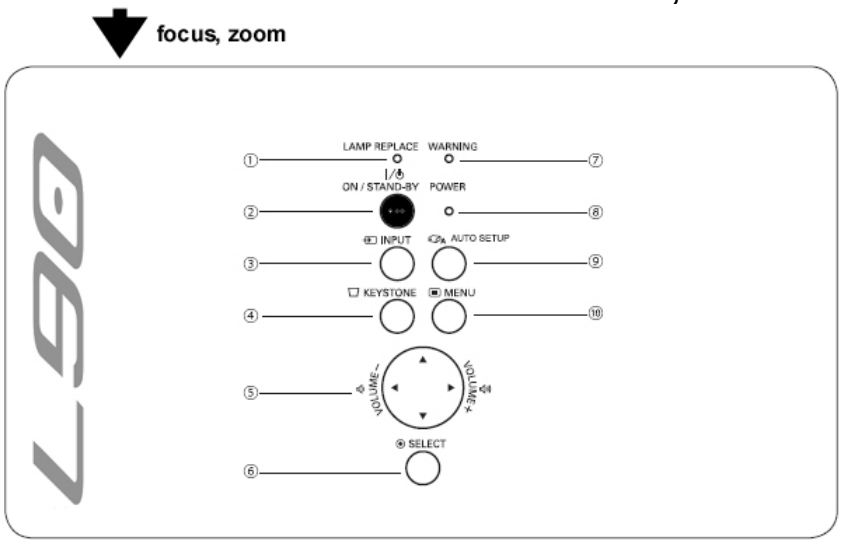
CONNECT POWER, VIDEO CABLE, & BLUE H_20 LINE

FIRST USE SET THE PC, MAC OR LAPTOP TO A BLACK DESKTOP AND RUN ONE OF THE SAMPLE VIDEO CONTENT.



5

PROJECTOR IN A REAR-PROJECTION SETUP, TURN ON THE PROJECTOR SWITCH (test level at eye-level first)



① **LAMP REPLACE indicator**
Lights yellow when the projection lamp reaches its end of life

② **ON/STAND-BY button**
Turn the projector on or off

③ **INPUT button**
Select an input source

④ **KEYSTONE button**
Correct Standard (for Vertical/Horizontal adjustment) or Corner keystone distortion

⑤ **POINT▲▼◄► (VOLUME +/-) buttons**
– Select an item or adjust the value in the On-Screen Menu
– Pan the image in the Digital zoom + mode
– Adjust the volume level (Point ◄► buttons)

⑥ **SELECT button**
– Execute the selected item (p.22).
– Expand or compress the image in the Digital zoom mode (p.38).

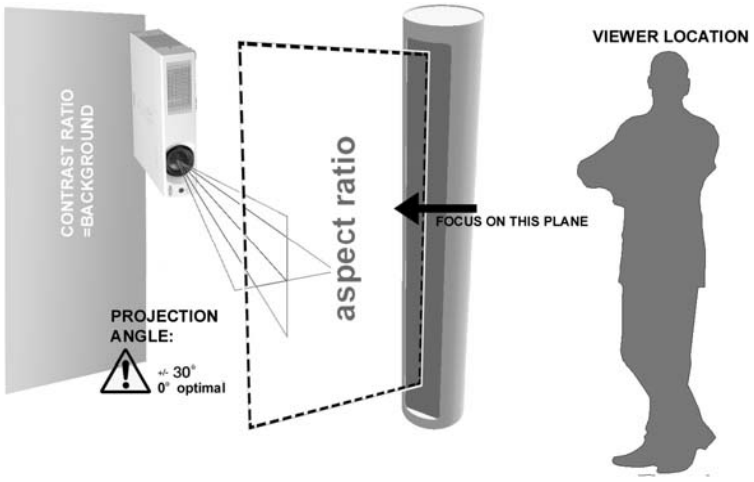
⑦ **WARNING indicator**
– Lights red when the projector detects an abnormal condition.
– Blinks red when the internal temperature of the projector exceeds the operating range

⑧ **POWER indicator**
– Lights red when the projector is in stand-by mode.
– Lights green during operations.
– Blinks green in the Power management mode

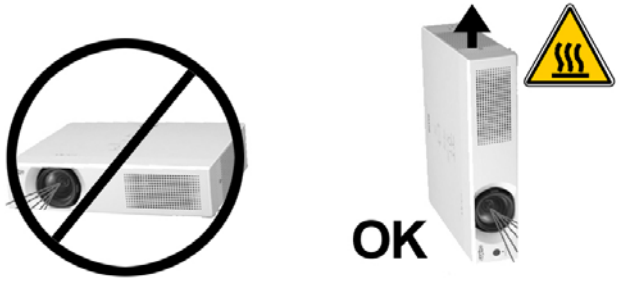
⑩ **MENU button**
Open or close the On-Screen Menu

6

USE ANY WHITE SURFACE (SUCH AS A SHEET OF PAPER) PLACED TEMPORARILY IN FRONT OF THE HONEYCOMB GRILL TO TEST THE FOCUS OF THE PROJECTOR. PROJECTOR CAN BE PLACED APROXIMATELY 1.8M BEHIND THE TOWER. IT CAN BE MOVED CLOSER OR FURTHER AWAY.



MATCH PROJECTOR ASPECT RATIO TO TOWER



VERIFY EXHAUST IS UP

7

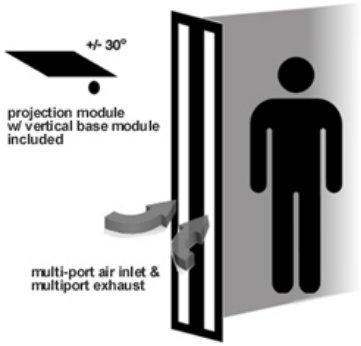
TURN SWITCH TO POSITION“1” WAIT APROXIMATELY 2 MINUTES FOR THE FIRST TIME. **(ON FUTURE BOOT-UPS, THIS WILL ONLY TAKE ABOUT 2 SECONDS)**

Setting II ***: requires 3VDC to 12VDC applied to the 2pin connector at the top lid. Upon supplying power, the system will turn on, by removing power, the system will shut down. Any controller can be used, or a 9VDC battery.***

I- ON
0- OFF
II- REMOTE TRIGGER

8

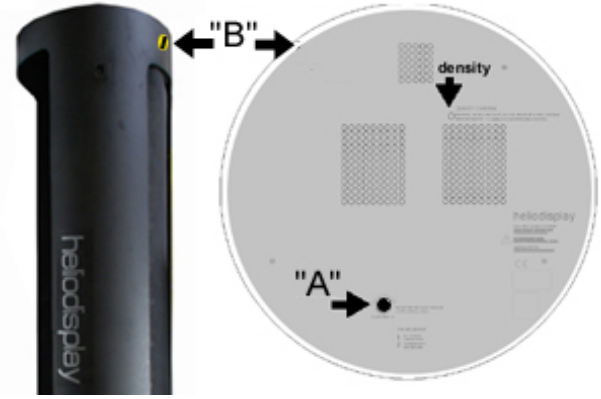
HOW DOES THIS WORK? HELIODISPLAY USES MAINLY AIR TO CREATE THE MEDIUM. THERE ARE THREE SEPARATE AIR STREAMS AND A SINGULAR ONE WITH A SMALL AMOUNT OF MOISTURE & AIR.



DO NOT PUT HOT WATER INTO THE HELIO. THE WATER COOLS THE SYSTEM. PLACING HOT WATER OR BOILING WATER WILL OVERHEAT THE MODULE AND MAY CAUSE PERMANENT DAMAGE

9

ADJUST THE SETTINGS BY CONTROLING BOTH “A” AND “B” KNOBS LOCATED ON TOP. NOTE OF THE SETTINGS ARE TOO HIGH OR TOO LOW GAPS IN THE AIR MEDIUM CAN OCCUR. **SEE TROUBLESHOOTING.**



NOTE THE CONTROL “B” IS ON THE TOP/SIDE

10

TO DRAIN OR TRANSPORT, PLACE THE TOWER A SLIGHTLY ABOVE GROUND, AND PLUG IN THE DRAIN HOSE AND OTHER END INTO A BUCKET. YOU CAN NOW TILT AND TRANSPORT .

ADVANCED SETUP (RECOMMEND READING)

Heliodisplay is a two-component system The projector module is to be placed in a rear-projector orientation and the heliodisplay base unit with the grill pointed sideways unless ordered in another configuration. Orienting the equipment in an incorrect position can damage the equipment or cause user harm.

Heliodisplay is a unique system that will require some time to learn and optimize for your setup. Please read this manual carefully as it outlines important items for setting up and using the equipment properly. You will first need to do some prep work to get the configuration setup, including setting your laptop or PC desktop background set to black.

ALWAYS DRAIN THE HELIO IF TRANSPORTING!

SETUP / ENVIRONMENT

rev 3

1 CONTENT

Change PC desktop to black
Use Images or Video with:
High Contrast
Motion
Black Background
Use samples on CD

2 BACKGROUND

CONTRAST RATIO=
BEHIND IMAGE: IMAGE
Use darker background behind the Heliodisplay to increase the perceptual contrast ratio. (If the walls are white, a white image will have to compete with the white background, minimizing the contrast).

3 PLACEMENT

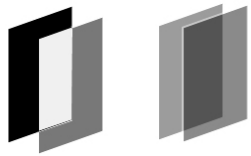
Maintain Heliodisplay away from strong drafts or air currents, open doors and overhead air-conditioning vents.

You can adjust the screen by rotating the two knobs on the top of the Heliodisplay for final adjustments.

4 LOCATION

The Heliodisplay hardware including projection source should be preferably hidden into furniture. The best results are when the system is not visible-- only the floating images, so find a location to place the base unit, and projector in a rear-projection configuration. Location will be important to hide the projection source. See THE PROJECTION setup in the User Manual. Try to maintain projection **ON-AXIS REAR PROJECTED** with the viewer.

Like any video projector, or display contrast is a function of human perception, the contrast between the darkest and brightest areas. Since the Heliodisplay projects images into air, images have to compete with bright backgrounds, even lighting from behind--something that does not apply to conventional displays where the background is always black and opaque as it is contained within a physical display. As a result, controlled ambient lighting, but most importantly, a contrast in the background will help improve contrast.



CHOSING THE RIGHT CONTENT

While Heliodisplay can display almost any image or video, it is better at displaying IMPACTFUL content; therefore certain guidelines contained herein should serve as a foundation for generating content for improving the results. A few examples supplied in the **Heliodisplay User CD include content samples** should be tested. Below are a few guidelines:

1. A black background for the content is a must. Reset your computer desktop to black if using a computer.
2. High contrast foreground images. Use bright simple colors, whites, greens, etc. **ONLY TEST CONTENT WITH THE SUPPLIED CD**
3. Dynamic moving images
4. Preferably do not fill up entire screen area with content. Leave a substantial black border that will make the images 'pop'.
5. Rotate the projector 90 degrees for portrait style aspect ratio.

THE PROJECTION

Heliodisplay system is designed for front viewing only with a rear-projection setup. Locate the projector behind either below or above the height of the person. Try to maintain a projection beam so that the light is slightly above or below the observer's eyes. Too high or low of an angle and the image will appear wavy or dim. Situating the base unit around chest level will also improve the light path by allowing the beam to project over the viewers head and out of the eye. Try various set ups and locations. It may take some practice to find a geometry that works. An on-axis projection source with the viewer will provide the brightest and crispest image. Lowering the resolution on the laptop will increase the image size.

Decrease the computer resolution and the image size will increase in size.

Setting of 50% brightness & 60% contrast will generate the optimal image.

PROP UP PROJECTOR SIDEWAYS: NOTE THAT THE ASPECT RATIO WILL BE TALLER THAN WIDER.

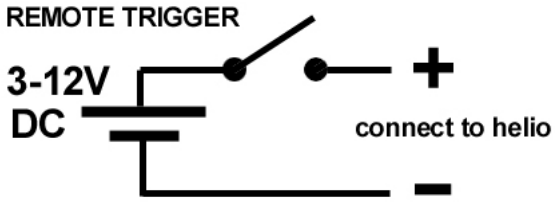
IMPORTANT: Position system so that projection beam is as close to on-axis as possible without direct starring into beam
MAINTAIN PROJECTOR POINTING +/- 30 DEG AT VIEWER

⚠ (LARGER ANGLE WILL DECREASE PICTURE QUALITY, STABILITY, LESS BRIGHT,LESS CLEAR)

⚠ Never block any air to or from the projector.

TURNING ON

DUTY CYCLE: The Heliodisplay is capable of daily use 8-10 hours a day use similar to a business style projector. No serious damage will occur if the system runs longer that this amount of time, but this may require using a compressed air can to temporarily clean out the central part of the honeycomb) as high humidity environments and long run times may create condensation that needs to evaporate overnight or be cleaned. However, if the density setting is set to the default setting operating using the existing air, little to no condensation will occur, and the system can run much longer. This air-based setting is also invisible and the preferred operating setting.



ADJUSTING THE SETTINGS

The Heliodisplay has been optimized prior to shipping, but as an air-based system it responds to the ambient air. As a result, during shipping, and under some conditions in transit (hot and cold extremes), condensation can build up inside the equipment temporarily. In order to remove this build up, you can direct a pressurized air can downward into the central portion of the honeycomb grill (where the screen comes out) for about 3 seconds and that will dislodge any build-up. If over time of operation (a day of use), you find there to be too many lines in the picture, you may need to repeat this operation. This means the density setting is too high and fan speed too slow. **Increase the fan speed to or decrease the density to prevent this from repeating**.

The laws of physics dictate that no flow can be laminar (completely uniform and linear) for a certain distance, therefore the Heliodisplay image will never be as completely stable as a conventional physical monitor as it is being projected onto constantly moving air. If you feel you need to make any adjustments to the Heliodisplay screen, the settings can be adjusted for fine tuning by rotating the adjustment knob. This will change the various airspeeds and screen settings until you find a setting that is suitable. The density setting should be set where the screen is barely visible from two to three meters from the image.

Due to the sensitive nature of airflow being affected by environmental conditions you may notice that upon first turning on the equipment that the screen may not seem crisp or clear at first. Do not be alarmed, as the settings were set correctly at the factory before shipping but due to variations in voltage, power frequency, humidity and ambient temperature it is very likely that the settings will need to be adjusted. (TURN THE ADJUSTMENT KNOB). You will do this after you have set up the equipment.

- If the ambient humidity is high, or the density setting is set too high, or exceeding the advised operating time may require using an air can to clean the honeycomb. You can also reduce the density setting (the knob adjacent to the on/off button) to compensate.

STORING

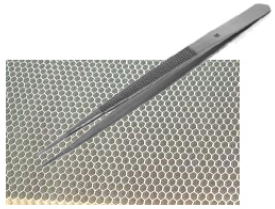
TO DRAIN: Tilt the base unit and connect the drain hose. Make sure the unit is COMPLETELY DRY. Tilting the tower and placing it OFF THE GROUND will remove all the remaining water. Allow water to pour into a bucket below as gravity will drain the remaining.

If you need to transport your Heliodisplay so that you require to tilt it more than 30 degrees you should drain the tank. This is to prevent any leaking. Tilting it grater than this amount may cause an overflow. If you plan to use the Heliodisplay occasionally you can keep the tank filled without any damage. If you do not plan to use the equipment for more than a month at a time, it may be a good idea to drain the chamber. A bucket or any receptacle can be used to collect the drained condensate prior to moving the Heliodisplay.

TO OPERATE FOR INSTALLATIONS

Enable the remote switch II setting to control remotely and connect the tower to the heliodisplay 5 gallon external tank accessory. The heliodisplay external tank contains a permanent hook up line to connect permanently. However it is recommended to shut down the equipment at night when not in use using the remote setting II on the powerswitch. If the external tank is not connected to an external line, the tank will operate for a few days of use under normal conditions without refilling (for rentals etc)

TROUBLESHOOTING GUIDE



Honeycomb Grill has a dent.

SOLUTION : Only dents within the central portion of the honeycomb will affect the image. Using a set of tweezers, GENTLY try to bend the aluminum back into shape.

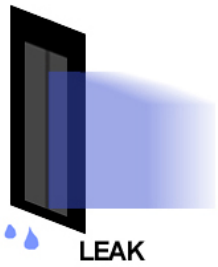
NO SCREEN VISIBLE

The screen does not come up, but the fans are on.

SOLUTION : Check that the pump is pumping water. Note that the pump will not turn on continuously. Is the water room temp or colder?

Try connecting and disconnecting the hoses to tes

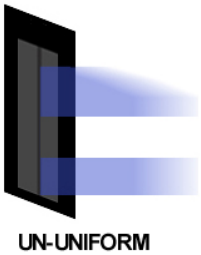
From time, to time, the pump may need to be manually primed, especially if the unit is not being used regularly. Try disconnecting the hoses and r attaching.



LEAK

If the unit overfills, or starts to leak after powering for a few minutes, check the float sensor. The white float sensors may be jammed during transport and causing an overfill. If leaking is immediate, a seal may be broken at the bottom.

SOLUTION : Open side bottom access panel. Verify both white floats move freely. If damaged, order part "FLT"
Find location of leak and plug up with silicon. Let dry overnight.



UN-UNIFORM

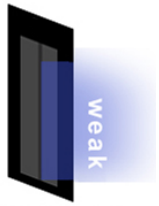
SOLUTION : Adjust the settings. Increase the main fans. If this does not help, then use an air can on center part of honeycomb to unclog honeycomb. Your airflow setting may be too low AND/OR the density set too high.

The settings to the heliodisplay need to be set so that the airflow is high and the density is set low. If the density is high and the airflow low, the honeycomb can clog up over time, but this can be temporarily fixed with an aircan. The permanent solution is increase the fan speed and decrease the density.

CLOUD NEAR BLOWER

If there is a dense cloud of water vapor coming out from the small fan above the expansion tank.

SOLUTION : <u>The yellow setting was set too low!</u> Increase the fan setting by turning the yellow knob (Control B). Setting too low will not engage the fan. If still not working, drain, place unit horizontal and check the connector at the bottom.



LOSS OF SCREEN DENSITY OVER TIME

SOLUTION : You may need to clean the titanium disks (see below) with a Q-tip (no detergents or solvents), if worn out, the replace the disks. (supplied). **Always make sure there is no water inside the tank when unscrewing the disks, and tighten firmly without over tightening. See Maintenance**.

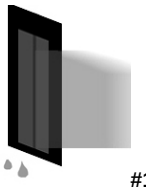
RATTLING NOISE

SOLUTION Is the water tank empty? Pump may be pumping air. If pump is not working Check the pump replace or service existing pump.

(Servicing: open the four small metal screws on the pump head and cleaning out the internal diaphragm before reattaching.)

If the unit does not turn on then check the fuse.
a
Small flathead screwdriver to open the compart
There are two fuses, one in operation, and the
as a replacement (5x20mm 240V, 3.15A). If th
is blown then there is something not working correctly,
and you should stop using the equipment and contact IO2 immediately.

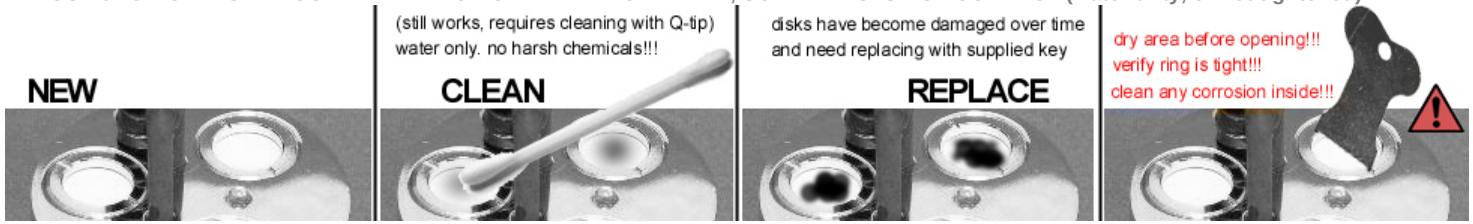
POSSIBLE PROBLEMS & SOLUTIONS



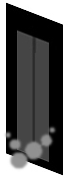
#1. Leak 1 (OverFlow): If the unit starts to leak water after operating for a few minutes, check that the white sensor moves freely inside the side access panel. Replacement part "FLT" for 2011 replaces existing sensors. Covered under warranty. No charge for parts. Parts can be ordered here www.io2technology.com/L90.html

#2. Leak 2 (Seal): If the unit starts to leak immediately, check the side pump opening and see if the pump is properly connected. If the leak originates from the bottom it means a seal on the bottom may have been damaged. Using silicon and drying 24 hours can seal any crack that may have occurred.

#3. Screen stops working randomly: Tank filled up, but no screen 1) Drain the unit, open the bottom access panel. 2) Check visually every white disk. Any disk that look damaged, may need to be replaced. NOTE: THE RING FROM **EACH DISK MUST BE PROPERLY TIGHTENED**. WATER CAN ENTER AND SHORT CIRCUIT OTHERWISE. You may need to clean underneath the disk for any corrosion if that occurs. **ANY CORROSION OR A BLACK CRACK IN THE DISK MEANS THE DISK RING WAS NOT PROPELY TIGHTENED!!! (Tighten firm, but not too forceful). DISKS LAST FOR ABOUT 6-18 MONTHS. IF YOU ARE REPLACING THEM BEFORE THAT, SOMETHING IS NOT CORRECT (water dirty, or not tightened)**

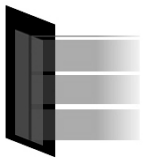


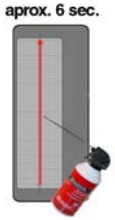
******** **ANY CORROSION UNDER THE DISK INDICATED THAT THE RING IS NOT TIGHTENED. THERE SHOULD NEVER BE ANY CORROSION UNDER THE DISK.**



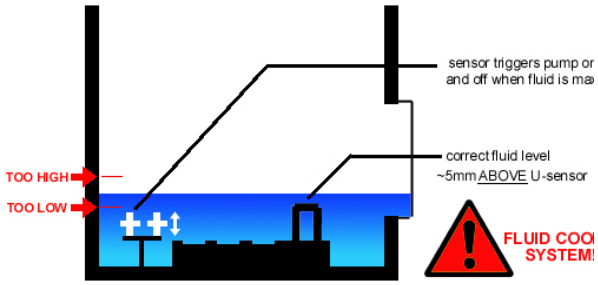
#4. Mist Cloud from bottom of grill (Bottom fan); Check that the bottom fan is not damaged. You can drain the unit and while empty power up the unit. Check if there is 13V on the bottom fan connector. If there is, the fan may have been damaged if the unit as dragged on the ground, or not properly drained. If there is no voltage, or a voltage reading under 5v then the mini power supply units may need to be replaced with part #PWMI. Covered under warranty. No charge for parts. Parts can be ordered here www.io2technology.com/L90.html

CONTINUED ON PAGE 2





#5. Big horizontal gaps in the image: Reduce the density setting, and increase control A (top knob). If it is at maximum, do not try to move it any more. Too much ambient humidity is causing a build up or moisture inside the grill along the locations in which there is a gap. This can be cleaned temporarily by running an aircan along the center area.



#6. Tank not filling up (pump not working) Is the pump jammed into the portal? Are the hoses kinked? Is there a hole in the hose (if the helio crushed the blue hose, a small opening in the water line can cause air to leak in and the pump will pump air, not water). Similarly, if the line is kinked, water will not flow. If the hose is not properly seated in the pump the pump will pump air and not the water. Check that the connection of the hose to the pump is firm. Note the pump will not be operational the entire time, and only turns on when the inside level is low.

First check the pump by removing the IN PORT of the hose pump and see if the pump moves/operates. If it does, there may be dirt inside the pump. You can either try to open the pump by removing the four screws and CAREFULLY put the pump back together or replace it with a new one. Pumps will last **between 6-12 months of operation** so if there is any premature failure you should check why.

If the pump is still not working, but seems to be in good condition, then perform the following. Drain the unit, open the side access panel and check to see if the white sensors move freely. Turn on the unit (with the access panel open, and no water) and try to see if the pump operates when you flip the white sensors up and down. If the pump still does not work, check the voltage on the 2-pin connector by the input of the pump. A replacement float sensor can be ordered.

MAINTENANCE & SERVICING

INFORMATION: http://www.io2technology.com/L90.html

We recommend that the heliodisplay be checked regularly as preventive maintenance. This will also help in avoiding any of the potential issues listed in the troubleshooting guide. Since installation conditions, water quality, humidity, temperature and duty cycle all effect the replacement cycle for parts, such as pumps and filters, the following guide should serve as reference only as it may be that they last many times longer or shorter than stated here. Typically though, pumps and filters should last for about 6-24 months depending on use, but the pump can fail for shorter periods if used under more strenuous conditions, or have the pump lasting for five years or longer without replacing.

It is good to check the cleanliness of the fans. The MTBF for the fans are 20,000 Hours, but if moisture or dust collects on them, their life may be shortened.

It is also recommended that the honeycomb grill be checked every 60-90 days for any collection of moisture residue.

Open up the ultrasonic tank. The smoked gray plastic window with the glowing red light is where the particle cloud is generated. Check to see that the disks are like-new and uniform in color (white or gold color). If they are not, use a Q-tip and GENTLY wipe down the surface a few times. DO NOT rub hard on the surface and wear out the disk. If the disks are worn out, then DISCONNECT POWER to the heliodisplay, and remove any water that is on top of the ultrasonic disks. IT MUST BE DRY BEFORE PERFORMING any replacement.

OPTIONAL EQUIPMENT

ORDER http://www.io2technology.com/L90.html

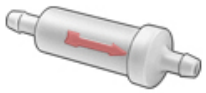
EXTERNAL TANK 5 GAL.

EXTRA ULTRASONIC DISK

BAFFLED PROJECTION 4500 LUMEN

EXTRA PUMP

EXTRA FUSE



EXTRA FILTER

IO2 PROVIDES NO-COST SERVICING AND REPAIR ON PARTS OR LABOR FOR ON ANY HELIODISPLAY FOR 3 YEARS ON PARTS AND LABOR FROM DATE OF PURCHASE.

SOME EXCEPTIONS APPLY SUCH AS IO2 DOES NOT PAY FOR SHIPPING OR COVER ANY SERVICING FOR ABUSED EQUIPMENT. IF YOU WISH TO HAVE YOUR EQUIPMENT REPAIRED OR SERVICED FREE OF CHARGE, GO TO WWW.IO2TECHNOLOGY.COM/L90.html, AND FILL OUT THE RMA FORM (ONLINE) AND SEND THE EQUIPMENT PRE-PAID FOLLOWING THE DIRECTIONS CAREFULLY.

IO2 Technology LLC (USA), (hereafter IO2) warrants this product to be free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY

IO2 Technology products (model dependant) are covered by a THREE YEARS (3) year limited parts and labor warranty from the date of the first customer purchase.

WHO IS PROTECTED

This warranty may be enforced only by the first purchaser, and is not transferable.

WHAT IS COVERED AND WHAT IS NOT COVERED

IO2 COVERs ALL INTERNAL PARTS ON THE BASE MODULE (THE SCREEN MODULE) FOR UP TO THREE YEARS. This covers the hardware and software, and ANY malfunction to the system. This warranty excludes shipping costs to and from IO2's repair locations (USA), or any visible abuse or damage to the hardware.

Except as specified below, this warranty covers all defects in material or workmanship in this product.

IO2's LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AT IO2's OPTION. REPLACEMENT PARTS MAY BE NEW OR RECONDITIONED PRODUCTS. The following are not covered by the limited warranty and IO2 shall not be liable for:

1. Any product which is not distributed by IO2.
2. Any product on which the label or serial number has been defaced, modified or removed.
3. Any indication of opening the enclosure to gain access to the products interior enclosure.
4. Removal or installation charges.
5. Damage caused by abuse to the product (i.e. dented case).
6. Payment of shipping and related charges incurred in returning the product for warranty repair.
7. Product use beyond the operating requirements.
8. Damage to projector due to water intrusion, or bulb replacement.
9. Projector bulb.

Customers are made aware that product performance is influenced by environmental conditions, such as but not limited to, temperature, humidity, ambient lighting, system configuration, video content, and operator control, among other factors. Review the operating manual for further information. While the product is considered to be compatible with many systems (DVD, PC computer etc), the specific functional implementation by the customers of the product may vary. The suitability of a product for a specific purpose or application must be determined by the customer and is not warranted by IO2.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on your product, consult IO2 or the dealer from whom you purchased the product.
2. Whenever warranty service is required, send a written list of the problems along with the hardware.
3. All products returned to IO2 for service MUST HAVE AN APPROVED RETURNED MERCHANDISE APPROVAL (RMA). To receive approval or for the name of the nearest IO2 authorized service center, email IO2 at support@io2technology.com
4. It shall be your obligation and expense to ship the product, freight prepaid, or to deliver it to a IO2 authorized service center, in either the original package or a similar package affording an equal degree of protection during shipping.
5. In the event a product is returned to IO2 for warranty service, and it is determined that there is no product defect or

4. Any modification to the product that is not part of the original product.
5. The product is designed to operate in a fixed installation setting in order to prevent tilting or rotating during use. Any direct or indirect damage caused by rotating is not covered.
6. Service required as a result of third party components.
7. Normal decrease in lamp light (projector bulb) output over time.
8. Damage, deterioration or malfunction resulting from:
a. Accident, misuse, abuse, neglect, improper ventilation, fire, dust, smoke, water, lightning, or other acts of nature, unauthorized product modification, and failure to follow instructions supplied with the device.
b. Repair or attempted repair by anyone other than an IO2 authorized service center.
c. Any shipment of the product (claims must be presented to the carrier).
d. Removal of an IO2 installation of the product.
e. Any other cause which does not relate to a product defect.
f. Use of the product beyond normal operating conditions.
9. All serviceable parts are accessible.

WHAT IO2 WILL PAY FOR
IO2 will pay for labor and material expenses all covered items, including but not limited to filters, pumps, fans, tubing, wiring, workmanship or other parts found to be defective, but IO2 will not pay for the following

that the product condition is not covered by this limited warranty, no diagnostic or service fee will be charged to the customer.
LIMITATION OF IMPLIED WARRANTIES
EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, IO2 MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRAN¬TIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERMS AND DURATION OF THIS LIMITED WARRANTY.

EXCLUSION OF DAMAGES
IO2's LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS OR WORKMANSHIP AT IO2's OPTION. IO2's SHALL NOT BE LIABLE FOR:
1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THIS PRODUCT, DAMAGES BASED UPON INCONVE¬NIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, COMMERCIAL LOSS; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSE-QUENTIAL OR OTHERWISE.
3. DAMAGE OR HARM TO THE PRODUCT OR PERSONS CAUSED BY MISUSE OR IMPROPER SETUP
HOW STATE LAW RELATES TO THE WARRANTY
SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUEN¬TIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLU¬SIONS MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.
FOR MORE INFORMATION, CONTACT:
IO2 Technology LLC
851 Cherry Ave 27/505,
San Bruno CA 94066 www.io2technology.com

Certifications and Declarations

This declaration of Conformity is suitable to the European Standard EN 45014, General criteria for supplier's conformity". The basis for the criteria has been found in the international documentation, particularly in ISO/IEC Guide 22, 1982, "Information on manufacture's declaration of conformity with standards or other technical specifications".

Applied Council Directive(s):
Directives on Audio Video and Similar Electronic Apparatus Safety SS-EN 60065, CEI-IEC 60335-2-56, SS-EN 60335-1, and SS-EN 60335-2-40

WEEE Statement
(Waste Electrical and Electronic Equipment)

The WEEE directive places an obligation on EU-based manufacturers, distributors, retailers and importers to take-back electronics products at the end of their useful life. A sister Directive, ROHS (Restriction of Hazardous Substances) complements the WEEE Directive by banning the presence of specific hazardous substances in the products at the design phase. The WEEE Directive covers all IO2 products imported into the EU as of January 1, 2008. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for Disposal of WEEE by Users in the European Union. The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Note that each component (power supply, base unit, projection module) carry varying certifications and declarations posted on the label on each part. Some components may carry different or none of the certifications as other parts in the total system.

END OF MANUAL